## CLAIMS

- A coating apparatus for an optical lens,
- 2 characterized by comprising:
- 3 a coating device which applies a coating
- 4 solution to a coating target surface of an optical lens;
- 5 a light beam radiating device which emits a
- 6 light beam to the coating solution applied to the
- 7 optical lens to cure the coating solution; and
- 8 a lens rack which stores a set of two optical
- 9 lenses and conveys the stored optical lenses from a
- 10 coating position to a curing position of the coating
- 11 solution,

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- 12 said coating device comprising two rotary
- 13 tables where the set of two optical lenses are set each
- 14 with the coating target surface thereof facing up, a
- 15 driving device which rotates said rotary tables
- 16 independently of each other, and two coating solution
- 17 dripping means each for dripping the coating solution
- 18 onto the coating target surface of the optical lens set
- 19 on said rotary tables,
- 20 wherein said light beam radiating device emits
- 21 the light beam to the optical lenses in said lens rack
- 22 with said lens rack being hermetically closed.
  - A coating apparatus for an optical lens
  - 2 according to claim 1, characterized in that
- 3 said light beam radiating device comprises a

- - 4 light source stored in a housing and a transparent
  - 5 member which covers an opening of said housing on a
  - 6 irradiation direction side and transmits the light beam
  - 7 emitted from said light source therethrough, and
  - 8 said lens rack has a storing portion in and
  - 9 from which the optical lenses can be stored and
  - 10 extracted, said storing portion having such a shape as
  - 11 to be closed when said lens rack is brought into tight
  - 12 contact with said transparent member through a seal
  - 13 member.
    - 3. A coating apparatus for an optical lens
    - 2 according to claim 1, characterized in that
    - 3 said lens rack has two cases at least one of
    - 4 which is disposed to be movable to come into contact
    - 5 with and separate from the other and which respectively
    - 6 store optical lenses, and biasing means for biasing said
    - 7 two cases to approach each other,
    - 8 said two cases being held spaced apart from
  - 9 each other when optical lenses coated with a coating
  - 10 solution are to be stored therein, and being held in
  - 11 contact with each other when the coating solution
  - 12 applied to the optical lenses is to be cured.
    - 4. A coating apparatus for an optical lens
    - 2 according to claim 1, characterized in that air in said
    - 3 lens rack is purged with an inert gas when the coating
    - 4 solution applied to the optical lenses is to be cured.
      - 5. A coating apparatus for an optical lens

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- 2 according to claim 1, characterized in that said lens
- 3 rack comprises an air exhaust channel through which
- 4 internal air is exhausted and an inert gas supply
- 5 channel through which an inert gas is supplied.
  - 6. A coating apparatus for an optical lens
- 2 according to claim 1, characterized in that said coating
- 3 device further comprises a spatula mechanism which
- 4 removes the coating solution staying on a peripheral
- 5 portion of the coating target surface of the optical
- 6 lens.
  - 7. A coating apparatus for an optical lens
- 2 according to claim 1, characterized in that said coating
- 3 device further comprises a lens outer surface solution
- 4 smoothening mechanism which uniforms a film thickness of
- 5 the coating solution attaching to an outer surface of
- 6 the optical lens.
  - 8. A coating apparatus for an optical lens
- 2 according to claim 1, characterized in that said coating
- 3 device further comprises a coating solution collection
- 4 device which collects an extra coating solution that has
- 5 scattered from the optical lens.
  - A lens rack employed when a coating solution
- 2 applied to an optical lens is to be cured by irradiation
- 3 with a light beam, characterized by comprising:
- 4 a stationary case and a movable case each
- 5 having an upwardly open storing portion which stores the
- 6 optical lens coated with the coating solution; and

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- 7 biasing means for biasing said movable case
- 8 toward said stationary case,
- 9 each of said stationary case and said movable
- 10 case comprising a lens placing portion which is arranged
- 11 in said storing portion and on which the optical lens is
- 12 to be placed with a coating target surface thereof
- 13 facing up, an exhaust channel through which air in said
- 14 storing portion is exhausted, and an inert gas supply
- 15 channel through which an inert gas is supplied into said
- 16 storing portion, wherein air in said storing portion is
- 17 purged with the inert gas when the coating solution is
- 18 to be cured.
  - 10. A lens rack according to claim 9,
- 2 characterized in that
- 3 said storing portion of each of said
- 4 stationary case and said movable case comprises a hole
- 5 in which the optical lens is to be inserted, and at
- 6 least three pin grooves each of which has one end
- 7 communicating with said hole and in which pins to clamp
- 8 the optical lens are to be inserted respectively, and
- 9 the hole is tapered such that a diameter
- 10 thereof increases upward.
  - 11. A lens rack according to claim 9,
  - 2 characterized in that
- 3 said movable case and said stationary case are
- 4 held spaced apart from each other when the optical lens
- 5 coated with the coating solution is to be stored in each

- 6 thereof, and are held in contact with each other when
- 7 the coating solution is to be cured by irradiation with
- 8 the light beam and when the optical lens is to be
- 9 extracted from said storing portion.